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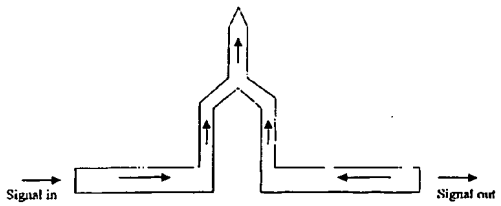
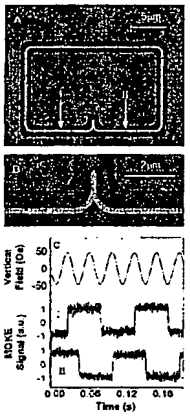
(54) Title: DATA STORAGE DEVICE





(57) Abstract: A data storage device for storing digital information in a readable form is described made up of one or more memory elements, each memory element comprising a planar magnetic conduit capable of sustaining and propagating a magnetic domain wall formed into a continuous propagation track. Each continuous track is provided with at least one and preferably a large number of inversion nodes whereat the magnetisation direction of a domain wall propagating along the conduit under action of a suitable applied field, such as a rotating magnetic field, is changed.

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